

Appl. No. 10/020,207
 Attorney Docket No. 1875.1640000

POWER OF ATTORNEY FROM ASSIGNEE



Broadcom Corporation, a corporation of California, having a principal place of business at 16215 Alton Parkway, Irvine, CA 92618-3616, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on 1) February 27, 2002, and 2) February 27, 2002, of an invention known as Ball Grid Array Package Substrates and Method of Making the Same (Attorney Docket No. 1875.1640000), which is disclosed and claimed in a patent application of the same title by the inventor(s) Reza-ur Rahman Khan and Chong Hua Zhong (said application filed December 18, 2001 at the U.S. Patent and Trademark Office, having Application Number 10/020,207).

The Assignee hereby appoint the U.S. attorneys associated with **CUSTOMER NUMBER 28393** to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: James D. Bennett, Registration No. 37,550, and David J. Rosmann, Registration No. 43,059 of BROADCOM CORPORATION, 16215 Alton Parkway, Irvine, CA 92618-3616; Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
 1100 New York Avenue, N.W.
 Suite 600
 Washington, D.C. 20005-3934
 U.S.A.

Direct phone calls to 202-371-2600.

RECEIVED
 APR - 8 2002
 TO 2800 MAIL ROOM

FOR: Broadcom Corporation
 SIGNATURE: WJ Ruehle
 BY: William J. Ruehle
 TITLE: Vice President and Chief Financial Officer
 DATE: March 14, 2002

Certificate Under 37 C.F.R. § 3.73(b)Applicant/Patent Owner: Reza-ur Rahman Khan and Chong Hua ZhongApplication No./Patent No.: 10/020,207 Filed/Issue Date: December 18, 2001Entitled: Ball Grid Array Package Substrates and Method of Making the Same

Broadcom Corporation, a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest, or
2. an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A. An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Reel , Frame , or for which a copy thereof is attached.

2. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Reel , Frame , or for which a copy thereof is attached.

3. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Reel , Frame , or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: March 14, 2002

Name: William J. Ruehle

Title: Vice President and Chief Financial Officer

Signature: WJ Ruehle

BEST AVAILABLE COPY

MAR. 7 2002 3:57PM

FEB. 15, 2002 5:20PM

SKGLF3712540

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

NO. 5612 P. 4/5

NQ 1815 P. 2/3

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): 1) Rosa-ur-Rahman Khan and 2) Chong-Hua Zhong, the undersigned inventor(s) hereby sell(s) and assign(s) to Broadcom Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) for the United States of America (as defined in 35 U.S.C. § 100),
 and throughout the world.

(a) in the invention(s) known as Ball Grid Array Package Substrates and Method of Making the Same for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) November 13, 2001, and 2) November 15, 2001 (also known as United States Application No. 10/020,207, filed December 18, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) In any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

Page 1 of 2

**DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION**

BEST AVAILABLE COPY

FFR 2021 00. 21 00:49 453 9850 10 12023712548 P.03

FEED 27. 20 17:47 FR BRDRCAM

** TOTAL PAGE. 64 **
FEB. 27. 2002 J:461M

0007110846

NO. 1875 P. 2/2

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

Appl. No. 10/020,207
 Docket No. 1875.1640000

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) James D. Bennett, Registration No. 37,550, and David J. Rosmann, Registration No. 43,059, of Broadcom Corporation, 16215 Alton Parkway, Irvine, CA; 92618-3616; Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sekshi, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Cover, Esquire, Registration No. 38,759; Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugalsky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; and Robert C. Millony, Esquire, Registration No. 34,395, all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 2-27-02 Signature of Inventor: R. Khan

Reza ur Rahman Khan

Date: 2-27-02 Signature of Inventor: B. B. Zhou

Chong Hua Zhou

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

BEST AVAILABLE COPY